Demonstration Scenario Sequence of Events

V-1	V-2	V-3	V-4	V-5
MOBILIZATION	INTELLIGENCE ANALYSIS	MISSION PLANNING & REHEARSAL	ASSURED MOBILITY	DIRECT ACTION

Vignette Starts

For simplicity, these events occur sequentially for the demonstration.
It is understood that this would not be the case in real world operations.
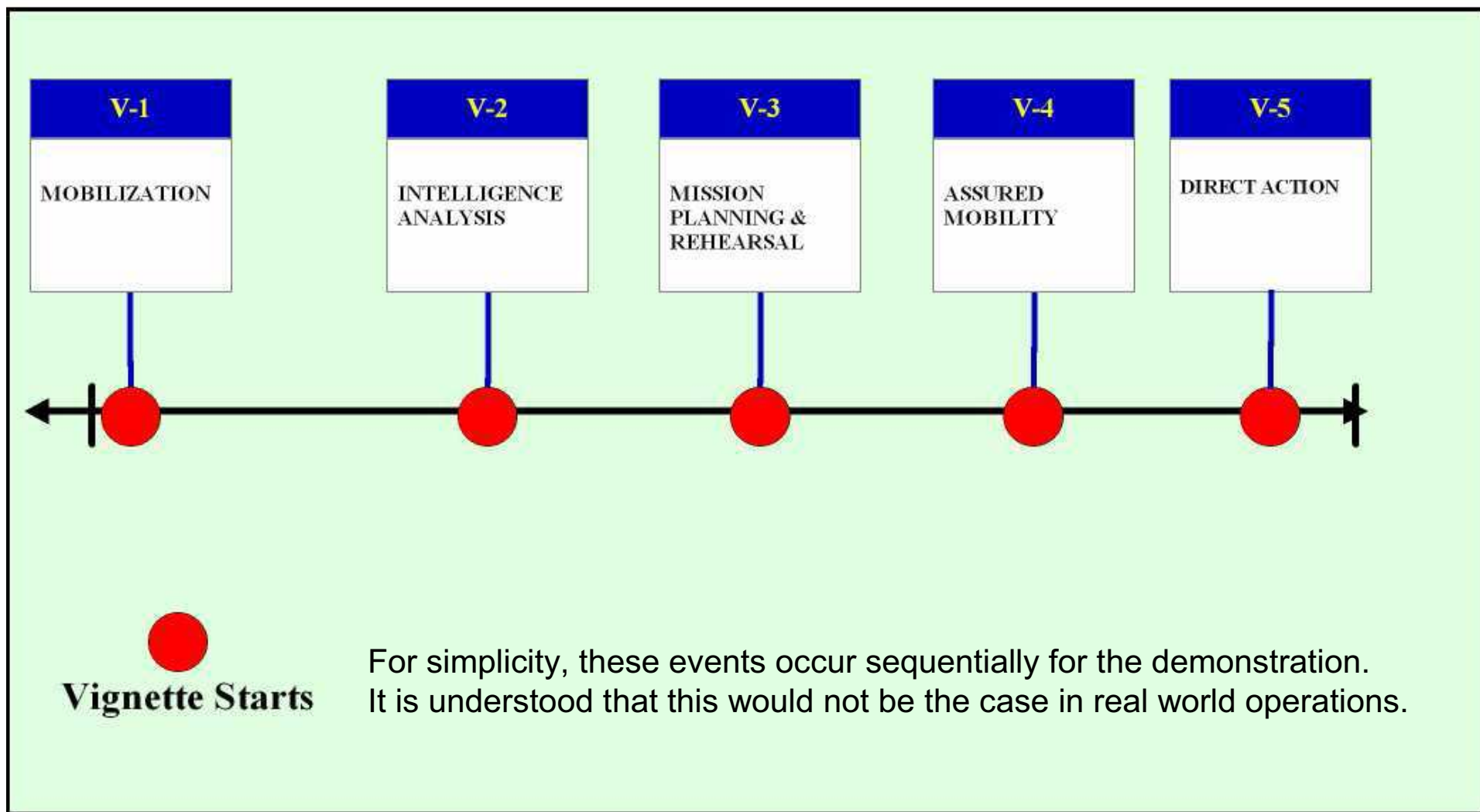
Mobilization (Vignette 1)

Today, large amounts of useful information are being collected on the battlefield, but soldiers are not aware of it nor are they able to locate, access or visualize
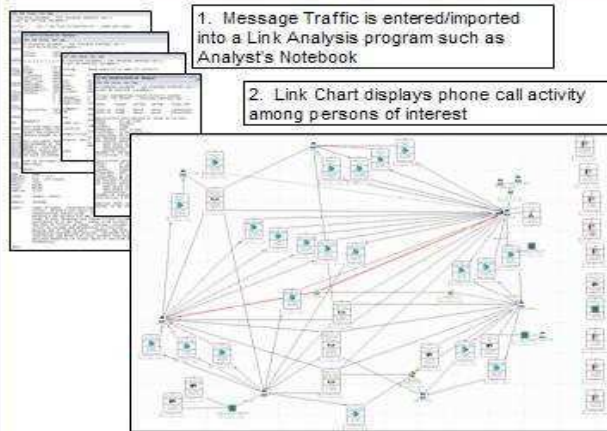
UTP

TEC (AGKC)

3ID Force Replacement of 1st Cav

3ID Terrain Team

Topographic Analyst

Discovery Service

Enterprise GeoDB

Enterprise GeoDB

DTSS Map Service

Seamless discovery of, access to, and visualization of geospatial information across the enterprise eliminates duplicative IPB efforts

Intelligence Gathering (Vignette 2)

Geospatial information is a key component of intelligence that is not being fully exploited

1. Message Traffic is entered/imported into a Link Analysis program such as Analyst's Notebook

2. Link Chart displays phone call activity among persons of interest

3. Timeline Chart presents the phone calls, meetings & incidents as events with links to the persons of interest. This format reveals temporal patterns and enables predictive analysis. This chart reveals a series of phone calls followed by a meeting followed by IED incidents).
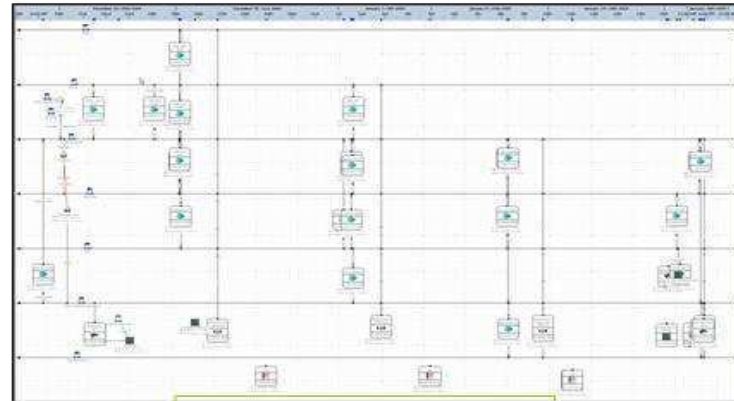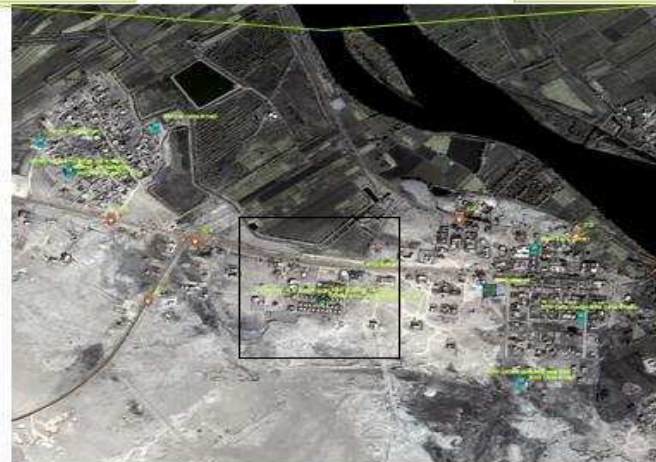
Geospatial Intelligence Data Analysis

4. Message Data imported into Analyst's Notebook can be transferred to ArcMap and displayed over high-resolution imagery

5. The insurgents could be interdicted during the fourth set of actions when they again convened at the safe house.
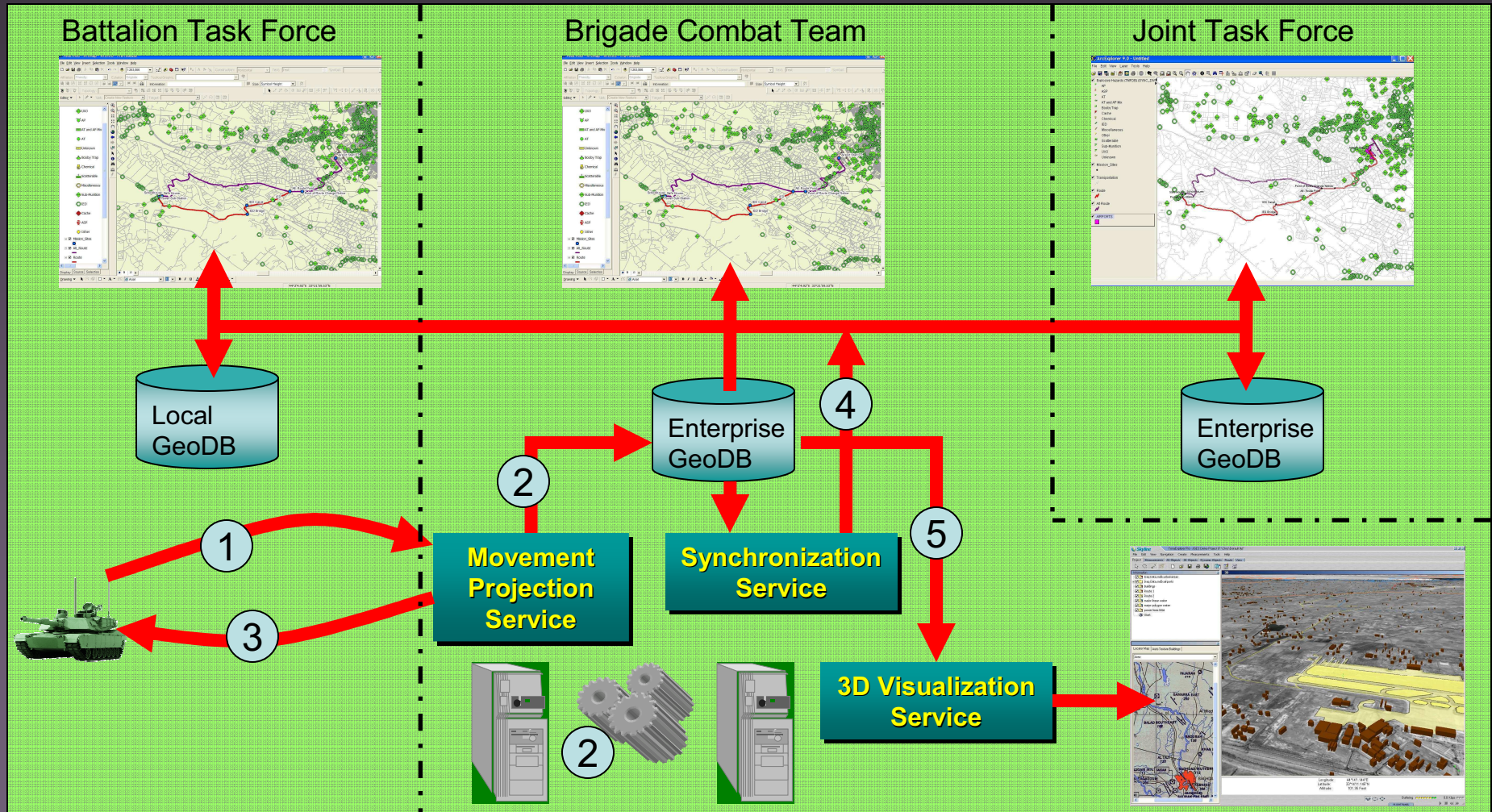
Visual geospatial information enhances actionable intelligence

Mission Planning (Vignette 3)

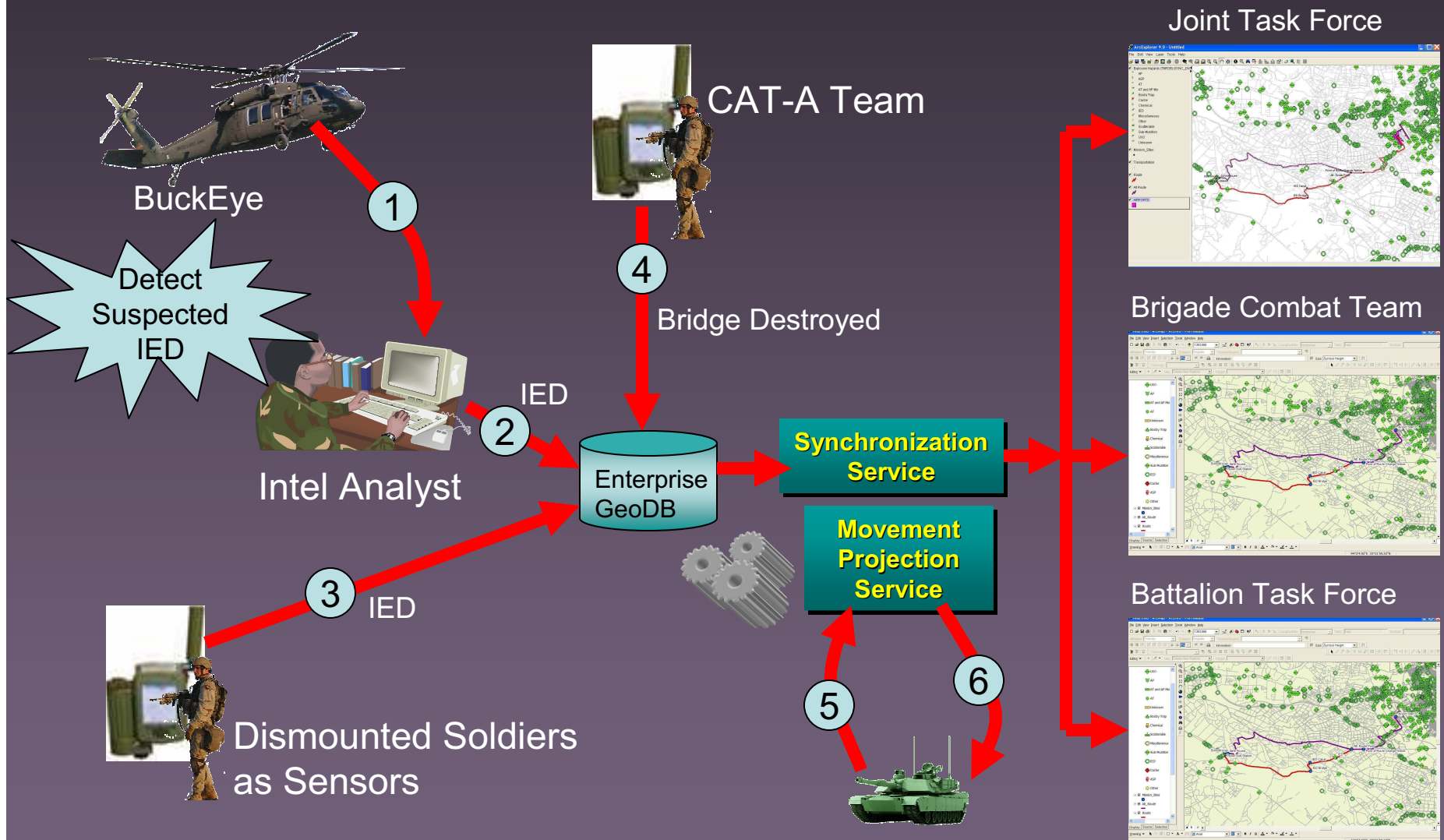Stovepiped systems and proprietary data formats inhibit interoperability

Battalion Task Force

Brigade Combat Team

Joint Task Force

Local GeoDB

Enterprise GeoDB

Enterprise GeoDB

Movement Projection Service

Synchronization Service

3D Visualization Service

1

2

3

4

5

2

Enterprise Geospatial Services enhance collaborative planning and interoperability

Assured Mobility (Vignette 4)

Soldiers currently do not receive timely geospatial information

BuckEye

Detect Suspected IED

1

Intel Analyst

IED

2

CAT-A Team

4

Bridge Destroyed

Joint Task Force

Enterprise GeoDB

Synchronization Service

Movement Projection Service

3 IED

Dismounted Soldiers as Sensors

5

6

Brigade Combat Team

Battalion Task Force

Geospatial data collected and shared in near real-time improves situation understanding

Direct Action (Vignette 5)

Soldiers lack the ability to obtain the latest intelligence once the mission begins

TUAV tasked by BCT

New plan
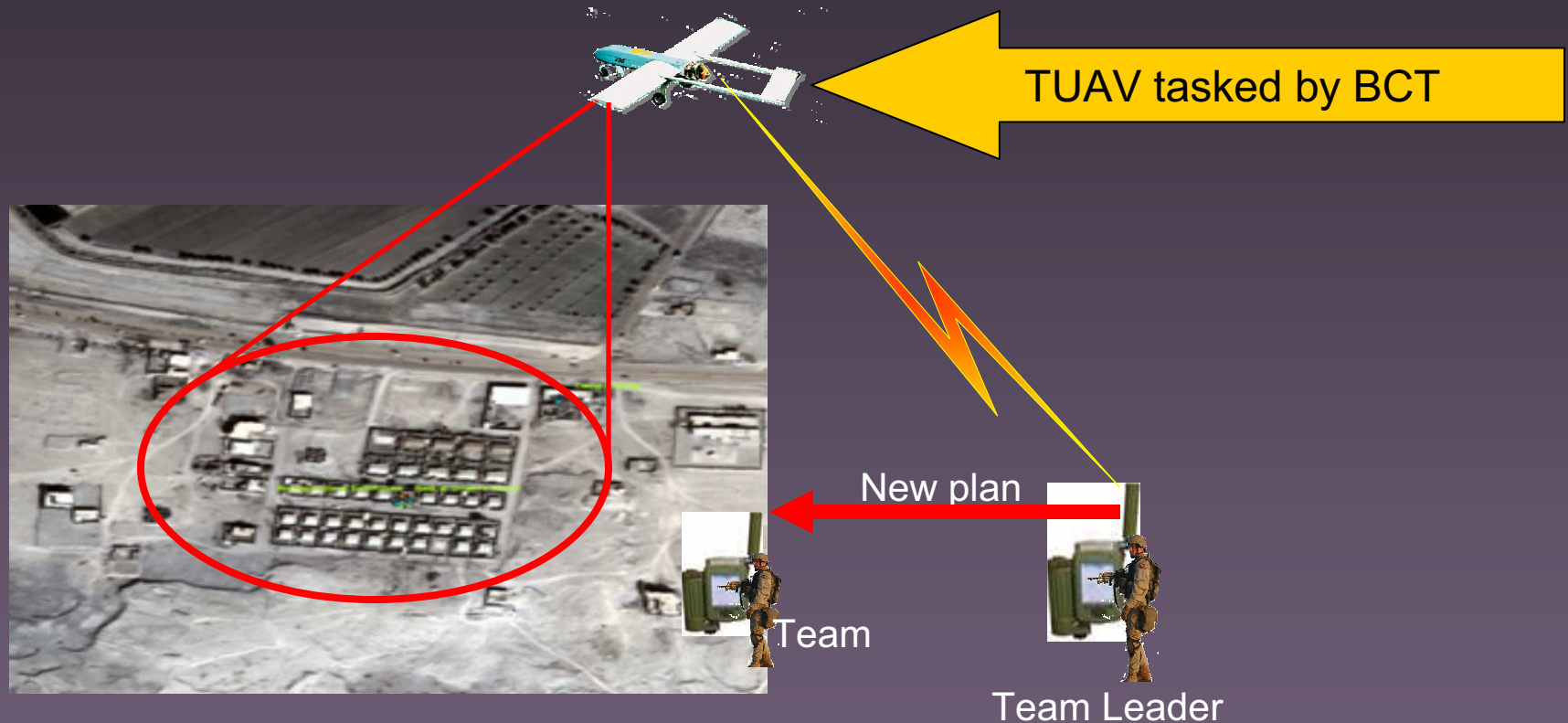
Team

Team Leader

1) UAV flies over target area and sends real-time situation awareness on the objective to team lead
2) Team lead identifies building adjacent to suspected hideout as the correct target
3) Team lead repositions entry team to enter adjacent building and disseminates new positions to the team

Sharing real-time situation awareness at the edge improves mission effectivity

Demonstration Summary

1. ## Discover data and services
   - ➢ Enabled the analyst to find relevant data across echelons to develop the operational picture and improve situation awareness
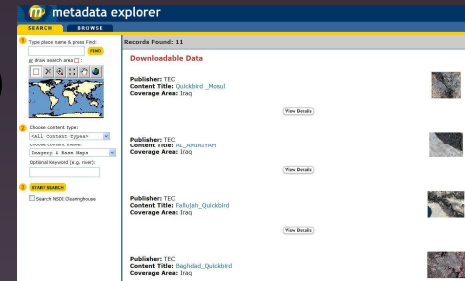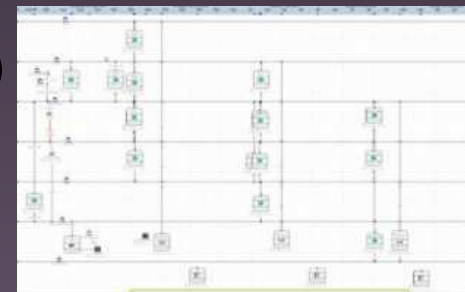
2. ## Temporal and geospatial information intensifies intelligence
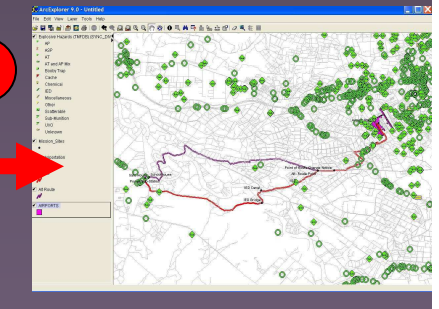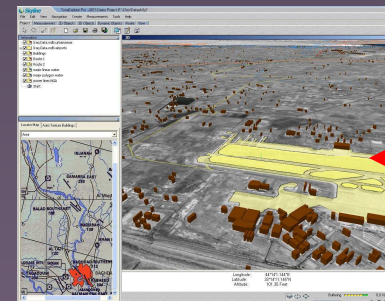   - ➢ Tracking services help visualize events spatially

3. ## Geospatial data synchronization
   - ➢ Enabled the commander to see near real-time geospatial planning and operational updates to improve his understanding of the battlespace
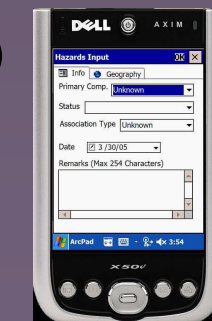
4. ## Soldier as sensor, information from/to the edge
   - ➢ Integrate timely, local knowledge into common operational picture

5. ## Geospatial analytical services at the platform level
   - ➢ Enabled the commander to make decisions regarding the safety of his troops in near real-time